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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/815,591	03/23/2001	Victor Spivak	EMCCP074	5572
21912 7590 02/05/2008 VAN PELT, YI & JAMES LLP 10050 N. FOOTHILL BLVD #200 CUPERTINO, CA 95014			EXAMINER BASEHOAR, ADAM L	
			ART UNIT 2178	PAPER NUMBER
			MAIL DATE 02/05/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/815,591

Applicant(s)

SPIVAK ET AL.

Examiner

Adam L. Basehoar

Art Unit

2178

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 November 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to communications: The RCE filed 11/01/07.
2. The rejection of claims 1-20 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement has been withdrawn as necessitated by Amendment.
3. Claim 21 has been added as necessitated by Amendment.
4. All previous rejections to the claims have been withdrawn as necessitated by Amendment.
5. Claims 1-21 are pending in the case. Claims 1, 7, and 14 are independent claims.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-2, 4-5, 7-8, 11-16, and 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doerre et al (US-6,446,061 09/03/02) in view of Weiser et al (US-5,982,507 11/09/99) in view of in further view of Chakrabarti et al (US-6,418,433 07/09/02).

-In regards to independent claims 1, 7, and 14, Dorre et al teaches a computer implemented method comprising a processor and memory connected to said processor, wherein the method further comprises:

recognizing two or more concepts in a document wherein said two or more concepts each represent a basic idea expressed in said document format (column 5, lines 57-65: "extracting for each of said unprocessed documents its features...in a feature-vector");

recognizing a concept association for the two or more recognized concepts associated with a conceptual model that includes the concept association for the two or more recognized concepts (column 4, lines 65-67; column 6, lines 1-5; column 12, lines 17-67; column 13, lines 1-59: i.e. different concepts associated via the hierarchical clustered taxonomy);

indicating a concept type associated with said document using the conceptual model (column 5, lines 55-65: "unprocessed document with said category-scheme of said cluster": i.e. the document is associated with a cluster with the most similar feature-vector; column 14, lines 25-65: "categorization tool assigns documents to predefined categories"); , wherein the concept type comprises a group of one or more concepts that represent a similar idea (column 2, lines 25-45: "cluster a generalized title or cluster label...group documents by subject"; column 14, lines 26-35: "assign documents to preexisting categories, sometimes called topics or themes").

Doerre further teaches wherein the document could come from a multitude of documents (column 4, lines 30-32). Dorre does not specifically teach wherein the initial document format had to be converted to one of the common document format to be processed. Weiser et al teach converting a document format (email message) from an email format to a common generic format (column 12, lines 53-55). It would have been obvious to one of ordinary skill in the art at the time of the invention for Dorre to have converted a document's initial format to a common document format, because Weiser et al taught that by doing so the common format can be understandable by the document system (column 12, lines 44-56: i.e. converting a document to a

format able to be processed by the a specific system provides the obvious advantage of being able to process the document in that system).

Doerre further teaches wherein recognizing and categorizing documents was well known to enhance further document searching and retrieval (column 8, lines 37-40: "powerful and flexible queries"; column 9, lines 1-3). Doerre does not specifically teach receiving a search query associated with said concept type and identifying based at least in part on the association of the concept type with said document, that said document is responsive to said search query. Chakrabarti et al teach wherein a search query was associated with said concept type identification (column 2, lines 23-28 & 58-60: "database of Web pages that is focused on a predefined topic or topics"; column 3, lines 52-57: "focused database...receiving a search query"; column 5, lines 13-27); identifying said concept at least in part by using said concept identification of said search query (column 2, lines 58-60: "generate a database of Web pages that is focused on a predefined topic or topics"; column 5, lines 21-25: "a user can search the database 30 efficiently for Web pages of interest, i.e., only for Web pages relating to the topic of which the database 30 was focuses"); utilizing the conceptual model (column 4, lines 61-66; column 5, lines 13-27) to determine that said document was associated with said identified concept (column 2, lines 58-60; column 3, lines 52-57; column 5, lines 13-27); and concluding at least in part on the determination that said document was associated with said identified concept, that said document was responsive to said search query (column 3, lines 52-57; column 4, lines 61-66; column 5, lines 13-27). It would have been obvious to one of ordinary skill in the art at the time of the invention for Dorre to have received a search query associated with said concept type for identifying said concept at least in part by using said identification, because Chakrabarti

et al teach that utilizing models (Fig. 1: 35B & 35B) to associated documents with a predefined topic or topics (i.e. concepts) allows efficient searching of said topics by users (column 2, lines 58-60; column 3, lines 52-57).

-In regard to dependent claim 2, Doerre teaches for each of said two or more concepts, identifying a plurality of features in said document format, wherein said plurality of features represent evidence of said of one or said two or more concepts in said format (column 5, lines 5-65: "extracting for each...unprocessed documents...features and computing its feature statistics in a feature-vector").

-In regard to dependent claims 4 and 19, Doerre teaches based on conceptual model, generating an auto-attribute, said auto-attribute being a descriptive label for said document (column 2, lines 25-45: "cluster a generalized title or cluster label...group documents by subject"; column 14, lines 26-35: "assign documents to preexisting categories, sometimes called topics or themes").

-In regard to dependent claims 5, 18, and 20, Doerre teaches based on said conceptual model assigning said common format document to a subject category in a directory (column 13, lines 1-24; column 14, lines 26-65).

-In regard to dependent claim 8, Dorre teaches wherein said conceptual model includes a concept dictionary (column 14, lines 57-65: "category scheme is a dictionary").

-In regard to dependent claim 11, Doerre teaches wherein the conceptual model includes a noise dictionary (column 6, lines 37-47).

-In regard to dependent claim 12, Doerre teaches assigning a subject category to said document based at least in part upon said conceptual model (column 12, lines 61-67; column 13, lines 1-54).

-In regard to dependent claim 13, Doerre teaches wherein assigning the subject category follows an auto-categorization rule (column 5, lines 55-67; column 6, lines 1-3; column 14, lines 57-67; column 15, lines 1-20).

-In regard to dependent claim 15, as shown above, Doerre teaches wherein the document could come from a multitude of documents over the Internet (column 1, lines 18-24; column 4, lines 30-32). Doerre does not specifically teach wherein the initial document format had to be converted to one of the common document format to be processed. Weiser et al teach converting a document format (email message) from an email format to a common generic format (column 12, lines 53-55). It would have been obvious to one of ordinary skill in the art at the time of the invention for Dorre to have converted a document's initial format to a common document format, because Weiser et al taught that by doing so the common format can be understandable by the document system (column 12, lines 44-56: i.e. converting a document to a

format able to be processed by the a specific system provides the obvious advantage of being able to process the document in that system).

-In regard to dependent claim 16, Doerre teaches separating the text content from said initial format document for categorizing documents based on text analysis techniques (column 5, lines 55-65: “extracting for each of said unprocessed documents its features”; column 9, lines 5-67; column 10, lines 1-67; column 11, lines 1-61). As shown above in dependent claim 15, Doerre does not teach converting the initial document format into a common document format. Weiser et al teach converting a document format (email message) from an email format to a common generic format (column 12, lines 53-55). It would have been obvious to one of ordinary skill in the art at the time of the invention for Doerre to have converted its initial format document to one of the common document formats listed above, because Weiser et teach by doing so the common format can be understandable by the document system (column 12, lines 44-56)(i.e. converting document to a format able to be processed by the a specific system provides the obvious advantage of being able to process the document in that system), wherein it would have also been obvious to incorporate the text from the initial document into the said common document, because Doerre teaches the textual content was what was needed to categorize the incoming documents (column 9: Section “Text Analysis Functions”).

-In regard to dependent claim 21, Doerre teaches wherein the conceptual model includes a concept association dictionary (column 13, lines 1-24: "tree constructed...contains the complete clustering information including all inter- and intra-cluster similarities").

8. Claims 3, 9, 10, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doerre et al (US-6,446,061 09/03/02) in view of Weiser et al (US-5,982,507 11/09/99) in view of in further view of Chakrabarti et al (US-6,418,433 07/09/02) in further view of Russell-Falla et al (US-6,675,162 01/06/04).

-In regard to dependent claims 3, 9, and 17, Doerre extracting features from a document and establishing a plurality of thresholds to be associated with said features (column 13, lines 24-54). Doerre does not specifically teach calculating a concept weight for one of said two or more concepts using a plurality of feature weights associated with said plurality of features wherein said concept weight represents a recognition confidence level for one of said two or more concepts and comparing said concept weight with a predetermined thresholds.

Russell-Falla et al teaches calculating a concept weight/confidence level for one of said two or more concepts ("calculating a rating of the page")(column 3, lines 54-57) using a plurality of feature weights ("requires a weighting be provided for each word of phrase in the list")(column 3, lines 46-57) associated with said plurality of features ("regular expressions")(column 2, lines 55-59; column 8, lines 9-19) wherein said concept weight represents a recognition confidence level for one of said two or more concepts (column 3, lines 54-57) and comparing said concept weight with a predetermined thresholds (column 2, lines 64-67; column 3, lines 1-16). It would have been obvious to one or ordinary skill in the art at the

time of the invention for Doerre to have calculated a weighting for the unprocessed documents feature values to be compared to threshold values as taught in Russell-Falla, because Russell-Falla taught that through user selectable threshold values a documents relevance could more easily tailored to a specific user (column 2, lines 64-67; column 3, lines 1-16).

-In regard to dependent claim 10, Doerre teaches setting specific threshold values for concept inclusion into the conceptual model at a plurality levels based on exceeding and or meeting certain thresholds (column 13, lines 1-55: “set of singleton clusters each containing a single documents...allows the user to set...thresholds of intra-cluster similarity”)

9. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Doerre et al (US-6,446,061 09/03/02) in view of Weiser et al (US-5,982,507 11/09/99) in view of in further view of Chakrabarti et al (US-6,418,433 07/09/02) in further view of W3C’s, “Extensible Markup Language (XML) 1.0”, 02/10/98, pp. 1-2, <http://www.w3.org/TR/1998/REC-xml-19980210>.

-In regard to dependent claim 6, Doerre teaches wherein the document could come from a multitude of documents over the Internet (column 1, lines 18-25; column 4, lines 30-32). Doerre does not specifically teach wherein a common format was an XML document. W3C teaches wherein using XML was notoriously well known in the art for web applications (pp. 2: Section 1.1). It would have been obvious to one of ordinary skill in the art at the time of the invention, for one of the common formats of Doerre to have been XML, because W3C teaches that the XML format provides the benefits of being easy to create, being easy to write programs which process XML documents, and being human-legible and reasonably clear (pp. 2: Section

1.1). It was also notoriously well known in the art at the time of the invention that XML was an International document standard.

Response to Arguments

10. Applicant's arguments with respect to claims 1, 7, and 14 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Please note the additionally cited prior art on the accompanying PTO-892 form.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adam L. Basehoar whose telephone number is (571)-272-4121. The examiner can normally be reached on M-F: 7:00am - 4:00pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Adam L. Basehoar


02/02/08